## Patent Claims:

1. Conjugated polymers, oligomers and dendrimers comprising at least 1 mol% of units of the formula (1)

$$\begin{bmatrix}
X & Y \\
R_m & R_n
\end{bmatrix}$$

Formula (1)

where the symbols and indices have the following meanings:

X is on each occurrence, identically or differently, oxygen, sulfur, selenium or an N(R1) group;

Y is on each occurrence, identically or differently, oxygen, sulfur or selenium;

is on each occurrence, identically or differently, a straight-chain, branched or cyclic alkyl or alkoxy chain having 1 to 22 C atoms, in which, in addition, one or more non-adjacent C atoms may be replaced by -C(R1)=C(R1)-, -C≡C-, -N(R1)-, -O-, -S-, -CO-O- or -O-CO-O- and in which one or more H atoms may be replaced by fluorine, an aryl, heteroaryl or aryloxy group having 5 to 40 C atoms, in which, in addition, one or more C atoms may be replaced by O, S or N and which may also be substituted by one or more non-aromatic radicals R and in which two or more of the radicals R may form an aliphatic or aromatic, mono- or polycyclic ring system with one another, or fluorine, chlorine, hydroxyl, CN, N(R1)₂, Si(R1)₃ or B(R1)₂;

is on each occurrence, identically or differently, H, a straight-chain, branched or cyclic alkyl chain having 1 to 22 C atoms, in which, in addition, one or more non-adjacent C atoms may be replaced by -O-, -S-, -CO-O- or -O-CO-O- and in which one or more H atoms may be replaced by fluorine, an aryl or heteroaryl group having 5 to 40 C atoms, in which, in addition, one or more C atoms may be replaced by O, S or N and which may also be substituted by one or more non-aromatic radicals R¹; a plurality of radicals R¹ or R¹ here may also form an aromatic or aliphatic, mono- or polycyclic ring system with further radicals R; is on each occurrence, identically or differently, 0, 1, 2, 3 or 4, with the proviso

is on each occurrence, identically or differently, 0, 1, 2, 3 or 4, with the proviso that m cannot be 4 if a link to the polymer runs directly via the carbocyclic system, and with the further proviso that m cannot be 3 or 4 if both links to the polymer run directly via the carbocyclic system;

n is on each occurrence, identically or differently, 0, 1 or 2, with the proviso that n cannot be 2 if a link to the polymer runs directly via the heterocyclic system, and with the further proviso that n = 0 if both links to the polymer run directly via the heterocyclic system;

with the exception of conjugated poly(phenyleneethynylenes).

- 2. Polymers according to Claim 1, characterised in that the units of the formula (1) are in conjugation with the polymer main chain.
- 3. Polymers according to Claim 1 and/or 2, characterised in that the units of the formula (1) are incorporated into the main chain of the polymer.
- 4. Polymers according to Claim 3, characterised in that the linking takes place in such a way that an even number of C atoms lies between the linking points.
- 5. Polymers according to Claim 1 and/or 2, characterised in that the units of the formula (1) are incorporated into the side chain of the polymer.
- 6. Polymers according to Claim 5, characterised in that the linking takes place via position 5, 6, 7 or 8.
- 7. Polymers according to Claim 5 and/or 6, characterised in that the linking to the main chain takes place via aromatic units, diarylamino units, triarylamino units, arylene-vinylene or aryleneethynylene units.
- 8. Polymers according to one or more of Claims 1 to 7, characterised in that they comprise further structural elements.
- 9. Polymers according to Claim 8, characterised in that the further structural elements are selected from the groups of the fluorenylenes, spirobifluorenylenes, dihydrophenan-threnylenes, indenofluorenylenes, tetrahydropyrenylenes, stilbenylenes, bisstyrylarylenes, 1,4-phenylenes, 1,4-naphthylenes, 1,4- or 9,10-anthrylenes, 1,6- or 2,7- or 4,9-pyrenylenes, 3,9- or 3,10-perylenylenes, 2,7- or 3,6-phenanthrenylenes, 4,4'-biphenylylenes, 4,4"-terphenylylenes or 4,4'-bi-1,1'-naphthylylenes.
- 10. Polymers according to Claim 8, characterised in that further structural elements are selected from the groups of the triarylamines, triarylphosphines, benzidines, tetra-arylene-para-phenylenediamines, phenothiazines, phenoxazines, dihydrophenazines, thianthrenes, dibenzo-p-dioxins, phenoxathiynes, carbazoles, azulenes, thiophenes, pyrroles or furans.
- 11. Polymers according to Claim 8, characterised in that further structural elements are selected from the groups of the pyridines, pyrimidines, pyridazines, pyrazines, triarylboranes, oxadiazoles, quinolines, quinoxalines or phenazines.

- 12. Polymers according to one or more of Claims 8 to 11, characterised in that they comprise at least 50 mol% of units according to Claim 9 and 2 30 mol% of units according to Claim 10 and/or 11.
- 13. Polymers according to one or more of Claims 1 to 12, characterised in that the proportion of structural units of the formula (1) is 10 to 30 mol%.
- 14. Polymers according to one or more of Claims 1 to 13, characterised in that the following applies to units of the formula (1):
  - X is on each occurrence, identically or differently, oxygen, sulfur or an N(R1) group;
  - Y is on each occurrence, identically or differently, oxygen or sulfur;
  - m is on each occurrence, identically or differently, 0, 1, 2 or 3, with the proviso that m cannot be 3 if both links to the polymer run directly via the carbocyclic system; the other symbols and indices are as defined under Claim 1.
- 15. Polymers according to Claim 14, characterised in that the following applies to units of the formula (1):
  - X is on each occurrence, identically or differently, oxygen or an N(R1) group;
  - Y is on each occurrence oxygen;
  - m is on each occurrence, identically or differently, 0, 1 or 2;
  - n is on each occurrence, identically or differently, 0 or 1;
  - the other symbols are as defined under Claim 1.
- 16. Polymers according to one or more of Claims 1 to 15, characterised in that the structures of the formula (1) are selected from the structures of the formulae (2) to (28), each of which is substituted by R or unsubstituted.
- 17. White-emitting conjugated polymers, characterised in that they comprise a proportion of 0.01 to 1 mol% of structural units of the formula (1).
- 18. Red-emitting conjugated polymers, characterised in that they comprise at least 1 mol% of structural units of the formula (1).
- 19. Blend of one or more polymers according to one or more of Claims 1 to 18 with any desired polymeric, oligomeric, dendritic or low-molecular-weight substances.
- 20. Bifunctional monomeric compounds of the formula (29)

Formula (29)

where Y, R, R1 and n have the same meaning as described in Claim 1, and the other symbols and indices have the following meaning:

- is on each occurrence, identically or differently, oxygen, sulfur or selenium; is on each occurrence, identically or differently, an aromatic or heteroaromatic ring system having 2 to 40 C atoms, which may be substituted by R1 or unsubstituted, or a stilbenyl, bisstilbenyl or tolanyl unit which is substituted by R1 or unsubstituted; the possible substituents R1 here may potentially be in any free position; a plurality of substituents R1 here may form an aliphatic or aromatic, mono- or polycyclic ring system with one another or with further substituents R;
- Z is on each occurrence, identically or differently, a functional group which copolymerises under conditions of C-C linking;
- p is on each occurrence, identically or differently, 0, 1, 2 or 3.
- 21. Monomers according to Claim 20, characterised in that Z stands for CI, Br, I, O-tosylate, O-triflate, O-SO<sub>2</sub>R1, B(OH)<sub>2</sub>, B(OR1)<sub>2</sub> or Sn(R1)<sub>3</sub>, where R1 has the same meaning as under Claim 1.
- 22. Monomers according to Claim 20 and/or 21, characterised in that the C-C links are selected from the groups of the SUZUKI coupling, the YAMAMOTO coupling and the STILLE coupling.
- 23. Solutions and formulations comprising one or more polymers or blends according to one or more of Claims 1 to 19 according to the invention in one or more solvents.
- 24. Use of a polymer according to one or more of Claims 1 to 19 in an electronic component, preferably in an organic light-emitting diode (OLED).
- 25. Electronic component comprising one or more polymers according to one or more of Claims 1 to 19.
- 26. Electronic component according to Claim 25, characterised in that it is a field-effect transistor (O-FET), an organic thin-film transistor (O-TFT), an organic integrated circuit (O-IC), an organic solar cell (O-SC), an organic light-emitting diode (OLED) or an organic laser diode (O-laser).

27. Organic light-emitting diode according to Claim 26, characterised in that it comprises one or more layers comprising one or more polymers according to one or more of Claims 1 to 20.